



# Carbon Graphite PTFE

Polytetrafluoroethylene

15% Graphite

Standard Colour: **Grey**

Properties	Unit	Test method	Value
Hardness	Shore D	ASTM D2240	≥ 64
Density	g/cm <sup>3</sup>	ASTM D792	2.05 – 2.11
Elongation at break	%	ISO527	≥ 70
Tensile strength	N/mm <sup>2</sup>	ISO527	≥ 13
Compressive strength at 1% deformation	N/mm <sup>2</sup>	ASTM D695	≥ 7
Deformation under load at room temperature after 24h at 13.7 N/mm <sup>2</sup>	%	ASTM D621	≤ 7
Permanent deformation as above after 24h of rest at room temperature	%	ASTM D621	≤ 5
<b>Tribological</b>			
Dynamic coefficient of friction		ASTM D1894 ASTM D3702	0.12 – 0.15
Wear factor K		ASTM D3702	0.010 – 0.020
<b>Thermal</b>			
Min service temperature	°C		-200
Max service temperature	°C		+260
Thermal expansion coefficient(linear) 25 - 100°C	10 <sup>-5</sup> (mm/mm)/°C	Similar to ASTM D696	10 - 12

All above stated data results from random tests which were taken from the ongoing production. All data was established based on standard test-products according to ISO, DIN and ASTM standards and can basically not be carried over to the completed seal.

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